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S1	2250824	COMPUTER? OR AUTOMAT?? OR (REMOTE?? OR CENTRAL?? OR AUTOM- ATIC OR ELECTRONIC?) () CONTROL? OR ROBOT?? OR SERVO? ? OR SERV- OMECH? OR PROGRAMMED OR CYBERNETIC? ?
S2	9009555	SENS?R? ? OR DETECT??? OR SENSE OR PERCEIV??? OR RECOGNI? - OR DISTINGUISH??? OR FIND???
S3	7769412	TARGET?? OR OBJECT??? OR GOAL? ? OR CENTER? ? OR FOCUS?? OR FOCI OR DESTINATION? ? OR AIM OR AIMS OR MARK? ?
S4	1533002	ANGLE? ? OR CORNER? ? OR PROJECTION? ? OR SALIENT? ?
S5	14528909	MEASUR? OR TRIANGULAT? OR GAUG??? OR MENSURAT??? OR CALCUL- AT??? OR COMPUTE OR SURVEY???
S6	248468	S2(5N) S3
S7	116768	S4(5N) S5
S8	10	S1(10N) (S6(10N) S7)
S9	6	S8 NOT PY>1999
S10	6	S9 NOT PD=19990116:20030630
S11	6	RD (unique items)

11/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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06129526 E.I. No: EIP02377086559
Title: **Sensor technology for soldier systems**
Author: Snow, P.R. JR. (Ed.); Randall, D.A. (Ed.)
Conference Title: **Sensor Technology for Soldier Systems**
Conference Location: Orlando, FL, United States Conference Date:
19980415-19980415
E.I. Conference No.: 59530
Source: Proceedings of SPIE - The International Society for Optical
Engineering v 3394 1998. 87p
Publication Year: 1998
CODEN: PSISDG ISSN: 0277-786X
Language: English

Descriptors: Image sensors ; Automatic target recognition ; Sensor
data fusion; Laser applications; Military equipment; Range finders; Angle
measurement

11/3,K/2 (Item 2 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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06129518 E.I. No: EIP02377086550
Title: **An electronic compass and vertical angle measurement sensor -
Applications and benefits to the soldier system**
Author: Roberts, Barry; Johnson, Angela; Belt, Ron; Platt, Bill
Corporate Source: Honeywell Sensor and Guidance Prod., Minneapolis, MN
55413, United States
Conference Title: **Sensor Technology for Soldier Systems**
Conference Location: Orlando, FL, United States Conference Date:
19980415-19980415
E.I. Conference No.: 59530
Source: Proceedings of SPIE - The International Society for Optical
Engineering v 3394 1998. p 11-16
Publication Year: 1998
CODEN: PSISDG ISSN: 0277-786X
Language: English

Descriptors: Compasses (magnetic); Angle measurement ; Electronic
equipment; Chemical sensors ; Automatic target recognition ; Helmet
mounted displays; Guns (armament)

11/3,K/3 (Item 3 from file: 8)
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02033400 E.I. Monthly No: EI8610100197 E.I. Yearly No: EI86085371
Title: **REAL-TIME RANGE MEASUREMENT DEVICE FOR THREE-DIMENSIONAL OBJECT
RECOGNITION.**
Author: Ozeki, Osamu; Nakano, Tomoaki; Yamamoto, Shin
Corporate Source: Toyota Central Research & Development Lab Inc, Aichi,
Jpn
Source: IEEE Transactions on Pattern Analysis and Machine Intelligence v
PAMI-8 n 4 Jul 1986 p 550-554
Publication Year: 1986
CODEN: ITPIDJ ISSN: 0162-8828
Language: ENGLISH

Identifiers: 3-D OBJECT RECOGNITION ; LIGHT-STRIP PROJECTION ;
AUTOMATIC SORTING; SHAPE MEASUREMENT

11/3,K/4 (Item 4 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01493921 E.I. Monthly No: EI8403026039 E.I. Yearly No: EI84107720
Title: APPLICATION OF THREE-DIMENSIONAL VISION SYSTEMS TO INDUSTRIAL
ROBOTIC MANUFACTURING AND INSPECTION OPERATIONS.
Author: Levine, Seymour S.
Corporate Source: Robotic Vision Systems Inc, Melville, NY, USA
Source: SAMPE Quarterly v 15 n 1 Oct 1983 p 1-5
Publication Year: 1983
CODEN: SAMQA2 ISSN: 0036-0821
Language: ENGLISH

Abstract: An automated vision sensor system uses structured light projection and optical triangulation techniques to digitize the surface of a 3-D object viewed by the sensor. The system is being applied in a number of turnkey automated inspection and robotic manufacturing systems, including an automated adaptive robotic welding system.

11/3,K/5 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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04507000 JICST ACCESSION NUMBER: 00A0006792 FILE SEGMENT: JICST-E
Possibility of Detecting the Shape of a Reflecting Object . A mobile
robot sonar ring sensor system measuring the bearing angle to
the reflecting point. The 6th rep.
YATA TERUKO (1); OYA AKIHISA (1); YUTA SHIN'ICHI (1)
(1) Univ. of Tsukuba
Nippon Robotto Gakkai Gakujutsu Koenkai Yokoshu, 1999,
VOL.17th,dailbunsatsu, PAGE.43-44, FIG.4, REF.3
JOURNAL NUMBER: X0008AAR
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.52 681.89
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

Possibility of Detecting the Shape of a Reflecting Object . A mobile
robot sonar ring sensor system measuring the bearing angle to
the reflecting point. The 6th rep.

11/3,K/6 (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

01431084 JICST ACCESSION NUMBER: 91A0835629 FILE SEGMENT: JICST-E
Parallel3-D Measurement System for Robot Vision.
KAMA KEISUKE (1)
(1) Tohoku Univ.
Tohoku Daigaku Dentsu Danwakai Kiroku(Record of Electrical and
Communication Engineering Conversazione, Tohoku University), 1991,
VOL.60,NO.1, PAGE.145-146, FIG.5
JOURNAL NUMBER: F0511AAU ISSN NO: 0385-7719
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3 007.52
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

ABSTRACT: This paper presents a 3-D measurement system for **robot** vision using structured light. In robotics, there needs 3-D **object** measurement to **recognize** the environmental information. In order to perform high-speed **measurement**, the use of multi-spot **projection** is proposed for the stereo vision. By the restriction of the object range, the correspondence...

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File 636:Gale Group Newsletter DB(TM) 1987-2003/May 09
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(c) 1999 AAAS
File 95:TEME-Technology & Management 1989-2003/Apr W4
(c) 2003 FIZ TECHNIK
File 647:CMP Computer Fulltext 1988-2003/Apr W2
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File 16:Gale Group PROMT(R) 1990-2003/May 09
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File 160:Gale Group PROMT(R) 1972-1989
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S1	2156544	COMPUTER? OR AUTOMAT?? OR (REMOTE?? OR CENTRAL?? OR AUTOM- ATIC OR ELECTRONIC?)()CONTROL? OR ROBOT?? OR SERVO? ? OR SERV- OMECH? OR PROGRAMMED OR CYBERNETIC? ?
S2	8155969	SENS?R? ? OR DETECT??? OR SENSE OR PERCEIV??? OR RECOGNI? - OR DISTINGUISH??? OR FIND???
S3	13200271	TARGET?? OR OBJECT??? OR GOAL? ? OR CENTER? ? OR FOCUS?? OR FOCI OR DESTINATION? ? OR AIM OR AIMS OR MARK? ?
S4	1275660	ANGLE? ? OR CORNER? ? OR PROJECTION? ? OR SALIENT? ?
S5	5464268	MEASUR? OR TRIANGULAT? OR GAUG??? OR MENSURAT??? OR CALCUL- AT??? OR COMPUTE OR SURVEY???
S6	267609	S2(5N)S3
S7	23121	S4(5N)S5
S8	7	S1(10N)(S6(10N)S7)
S9	5	S8 NOT PY>1999
S10	5	S9 NOT PD=19990116:20030630
S11	4	RD (unique items)

11/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00973617 96-23010

Tom Edison would be astonished

Keenan, Tim
Ward's Auto World v30n11 PP: 59-60 Nov 1994
ISSN: 0043-0315 JRNL CODE: WAW
WORD COUNT: 614

...TEXT: is required in Germany. Designed for use with halogen as well as future lighting systems, **automatic aim** control uses ultrasonic **sensors** at the front and rear of the vehicle to **measure** the **angle** between the car body and the road. It then adjusts the headlights' vertical aim, directing...

11/3,K/2 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2003 The Gale Group. All rts. reserv.

01029352 Supplier Number: 39910808 (USE FORMAT 7 FOR FULLTEXT)
HEIDENHAIN'S WESTEC EXHIBIT TO FEATURE NEW PRODUCTS FOR MACHINE TOOL POSITIONING, MEASUREMENT AND CONTROL.

PR Newswire, pN/A
Dec 16, 1986
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 486

... encoders with integral couplings,
- an unusually compact 17-bit absolute rotary encoder for higher accuracy **angle measuring** applications,
- a new incremental linear encoder with distance-coded reference **marks** to facilitate **automatic** datum **finding**
on numerically-controlled machines, and
- a push-rod type, sealed incremental linear encoder of high...

11/3,K/3 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01069314 I97022737259

Attributed scattering centers for SAR ATR

(Streuzentren fuer die automatische Zielerkennung bei Radar mit synthetischer Apertur)
Potter, LC; Moses, RL
Dept. of Electr. Eng., Ohio State Univ., Columbus, OH, USA
IEEE Transactions on Image Processing, v6, n1, pp79-91, 1997
Document type: journal article Language: English
Record type: Abstract
ISSN: 1057-7149

IDENTIFIERS: GEOMETRICAL THEORY OF DIFFRACTION; RADAR **TARGET RECOGNITION** ; ATTRIBUTED SCATTERING **CENTERS** ; SAR ATR; HIGH FREQUENCY RADAR **MEASUREMENTS** ; MAN MADE TARGETS; **CORNERS** ; FLAT PLATES; SIGNAL REPRESENTATION; **AUTOMATIC TARGET RECOGNITION** ; PARAMETRIC MODELS; RADAR RETURNS; SCATTERING BEHAVIOUR; STATISTICALLY ROBUST ESTIMATION; POLARIZATION RESPONSE; M ARY GENERALIZED LIKELIHOOD...

11/3,K/4 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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00605219 M92093927626

Zmanjsanje nedolocenosti lege in usmerjenosti predmeta v prijemalu robota
(Unbestimmtheitsminderung der Lage und Orientierung des Objektes in den
Robotergreifarm)

(Reducing uncertainty in position and orientation of object in robot
gripper)

Dolensek, S

Fak. za elektrotehniko, Ljubljana, Slovenia

Strojniski Vestnik, v38, n4-6, pp99-111, 1992

Document type: journal article Language: Slovene

Record type: Abstract

ISSN: 0039-2480

DESCRIPTORS: GRIPPING ARMS; GRIPPER CONTROL SYSTEMS; INDUSTRIAL ROBOTS ;
HORIZONTAL MEASUREMENT; DIRECTION; **OBJECT RECOGNITION** ; POSITION
INDICATORS; **MEASURING** FEELERS; MECHANICAL SENSING; TORQUE; SWING **ANGLE** ;
INERTIAL MOMENTS; VECTORS; LARGE SCALE MODEL; LOADABILITY; LOAD...